

1. A computer-readable medium having stored thereon a data structure comprising:

a design entity field containing data representing an entity name of a design entity from which said simulation event is generated.

3. The computer-readable medium of claim 1, wherein said data structure further comprises an instantiation identifier field containing data specifying an instance of said design entity from which said simulation event is generated.

4. The computer-readable medium of claim 1, wherein said data structure further comprises an instrumentation entity field containing data representing an instrumentation entity that generates said simulation event from within said design entity.

5. The computer-readable medium of claim 4, wherein said design entity field and said instrumentation entity field produce a unique event namespace for each instrumentation entity associated with said design entity.

6. The computer-readable medium of claim 4, wherein said

Table 1. Demographic characteristics of the study population	
Age (years)	Mean (SD)
18-24	20.5 (2.5)
25-34	29.5 (4.5)
35-44	39.5 (5.5)
45-54	49.5 (6.5)
55-64	59.5 (7.5)
65-74	69.5 (8.5)
75-84	79.5 (9.5)
85-94	89.5 (10.5)
95-104	99.5 (11.5)
105-114	109.5 (12.5)
115-124	119.5 (13.5)
125-134	129.5 (14.5)
135-144	139.5 (15.5)
145-154	149.5 (16.5)
155-164	159.5 (17.5)
165-174	169.5 (18.5)
175-184	179.5 (19.5)
185-194	189.5 (20.5)
195-204	199.5 (21.5)
205-214	209.5 (22.5)
215-224	219.5 (23.5)
225-234	229.5 (24.5)
235-244	239.5 (25.5)
245-254	249.5 (26.5)
255-264	259.5 (27.5)
265-274	269.5 (28.5)
275-284	279.5 (29.5)
285-294	289.5 (30.5)
295-304	299.5 (31.5)
305-314	309.5 (32.5)
315-324	319.5 (33.5)
325-334	329.5 (34.5)
335-344	339.5 (35.5)
345-354	349.5 (36.5)
355-364	359.5 (37.5)
365-374	369.5 (38.5)
375-384	379.5 (39.5)
385-394	389.5 (40.5)
395-404	399.5 (41.5)
405-414	409.5 (42.5)
415-424	419.5 (43.5)
425-434	429.5 (44.5)
435-444	439.5 (45.5)
445-454	449.5 (46.5)
455-464	459.5 (47.5)
465-474	469.5 (48.5)
475-484	479.5 (49.5)
485-494	489.5 (50.5)
495-504	499.5 (51.5)
505-514	509.5 (52.5)
515-524	519.5 (53.5)
525-534	529.5 (54.5)
535-544	539.5 (55.5)
545-554	549.5 (56.5)
555-564	559.5 (57.5)
565-574	569.5 (58.5)
575-584	579.5 (59.5)
585-594	589.5 (60.5)
595-604	599.5 (61.5)
605-614	609.5 (62.5)
615-624	619.5 (63.5)
625-634	629.5 (64.5)
635-644	639.5 (65.5)
645-654	649.5 (66.5)
655-664	659.5 (67.5)
665-674	669.5 (68.5)
675-684	679.5 (69.5)
685-694	689.5 (70.5)
695-704	699.5 (71.5)
705-714	709.5 (72.5)
715-724	719.5 (73.5)
725-734	729.5 (74.5)
735-744	739.5 (75.5)
745-754	749.5 (76.5)
755-764	759.5 (77.5)
765-774	769.5 (78.5)
775-784	779.5 (79.5)
785-794	789.5 (80.5)
795-804	799.5 (81.5)
805-814	809.5 (82.5)
815-824	819.5 (83.5)
825-834	829.5 (84.5)
835-844	839.5 (85.5)
845-854	849.5 (86.5)
855-864	859.5 (87.5)
865-874	869.5 (88.5)
875-884	879.5 (89.5)
885-894	889.5 (90.5)
895-904	899.5 (91.5)
905-914	909.5 (92.5)
915-924	919.5 (93.5)
925-934	929.5 (94.5)
935-944	939.5 (95.5)
945-954	949.5 (96.5)
955-964	959.5 (97.5)
965-974	969.5 (98.5)
975-984	979.5 (99.5)
985-994	989.5 (100.5)
995-1004	999.5 (101.5)
1005-1014	1009.5 (102.5)
1015-1024	1019.5 (103.5)
1025-1034	1029.5 (104.5)
1035-1044	1039.5 (105.5)
1045-1054	1049.5 (106.5)
1055-1064	1059.5 (107.5)
1065-1074	1069.5 (108.5)
1075-1084	1079.5 (109.5)
1085-1094	1089.5 (110.5)
1095-1104	1099.5 (111.5)
1105-1114	1109.5 (112.5)
1115-1124	1119.5 (113.5)
1125-1134	

2 instrumentation entity field contains the name of an  
3 embedded instrumentation entity.

1        7. The computer-readable medium of claim 4, wherein said  
2        instrumentation entity field further contains data  
3        specifying an instance of said instrumentation entity that  
4        generates said simulation event from within said design  
5        entity.

1        8.    The computer-readable medium of claim 1, wherein said  
2        simulation event is defined in an instrumentation entity  
3        comment, and wherein said data within said eventname field  
4        includes the name given to said simulation event within  
5        said instrumentation entity description comment.

1           9.    The computer-readable medium of claim 1, wherein said  
2    design entity name is unique with respect to entity names  
3    of other design entities.

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1 10. A method for processing a simulation event during  
2 model simulation, said method comprising:

3 associating a design entity identifier with a  
4 simulation event; and

5 evaluating occurrences of said simulation event within  
6 said simulation model in accordance with said design entity  
7 identifier.

1 11. The method of claim 10, wherein said design entity  
2 identifier includes a design entity name, and wherein said  
3 associating step further comprises encoding said design  
4 entity name within a hardware description language  
5 declaration of said simulation event.

1 12. The method of claim 11, wherein said design entity  
2 identifier further includes a design entity instantiation  
3 identifier, and wherein said associating step further  
4 comprises encoding said design entity instantiation  
5 identifier within said hardware description language  
6 declaration of said simulation event.

1 13. The method of claim 10, further comprising  
2 associating an eventname with said simulation event.

1 14. The method of claim 10, further comprising  
2 associating an instrumentation entity with said  
3 simulation event, wherein said instrumentation entity is  
4 instantiated within said design entity.

1 15. The method of claim 14, further comprising  
2 generating at least one instance of said design entity.

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1 16. The method of claim 15, wherein said generating step  
2 further comprises generating an instrumentation instance  
3 data structure wherein said simulation event is declared.

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